PAT-NO: JP356074749A

DOCUMENT-IDENTIFIER: JP 56074749 A

TITLE: MICROPROGRAM CONTROLLING DEVICE

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Abstract Text - FPAR (2):

CONSTITUTION: As for the microprogram, the micro-instruction is read out to the micro-instruction register 3 from the control memory by the (n) bit of the address stored in the micro-instruction address register 2. Also at the same time, the decode mode is read out to the decode mode register 6 from the decode mode memory by use of the high rank (a) bit of the address stored in the register 2. The decoder 4 decodes the micro-instruction stored in the micro-instruction register 3, and modifies the decode output prescribed by the decode mode which has been stored in the register 6.

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PUBN-DATE: June 20, 1981

INVENTOR-INFORMATION:
NAME

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APPL-NO: JP54152664

APPL-DATE: November 26, 1979

INT-CL (IPC): G06F009/22

ABSTRACT:

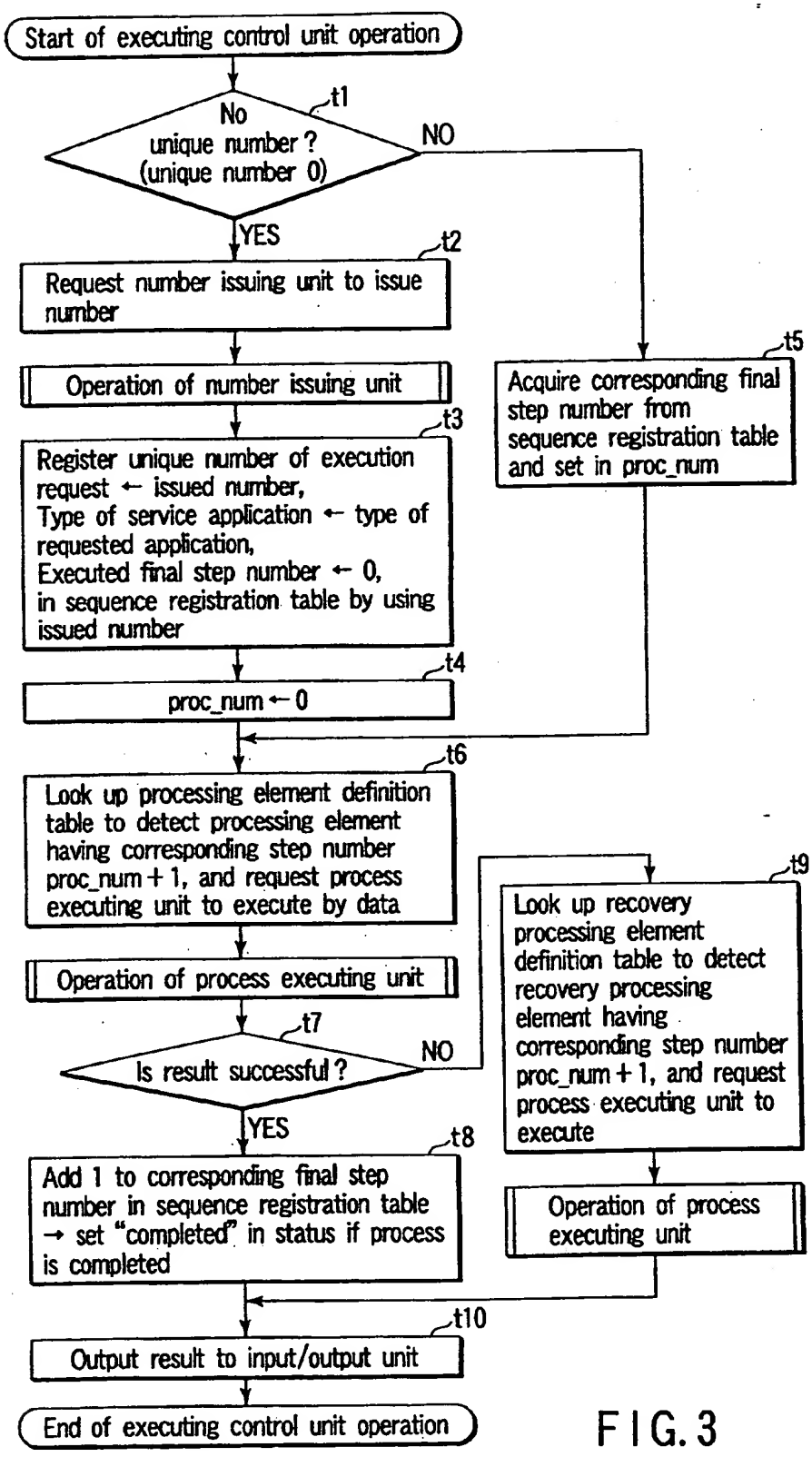
Start of executing control unit operation
t1
No unique number ? (unique number 0)
NO
YES
t2
Request number issuing unit to issue number
Operation of number issuing unit
t3
Register unique number of execution request ← issued number, Type of service application ← type of requested application, Executed final step number ← 0, in sequence registration table by using issued number
t4
proc_num ← 0
t5
Acquire corresponding final step number from sequence registration table and set in proc_num
t6
Look up processing element definition table to detect processing element having corresponding step number proc_num + 1, and request process executing unit to execute by data
Operation of process executing unit
t7
Is result successful ?
NO
YES
t8
Add 1 to corresponding final step number in sequence registration table → set "completed" in status if process is completed
t9
Look up recovery processing element definition table to detect recovery processing element having corresponding step number proc_num + 1, and request process executing unit to execute
Operation of process executing unit
t10
Output result to input/output unit
End of executing control unit operation

FIG. 3

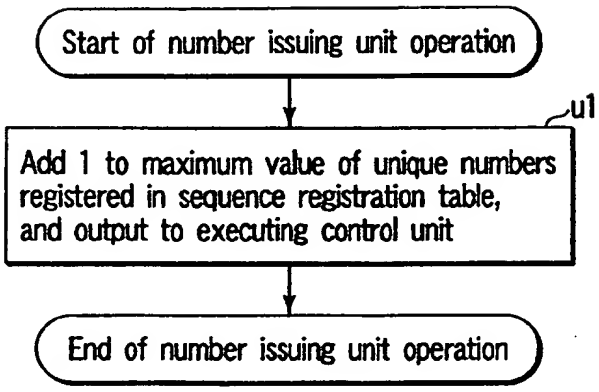
Start of number issuing unit operation
u1
Add 1 to maximum value of unique numbers registered in sequence registration table, and output to executing control unit
End of number issuing unit operation

FIG. 4

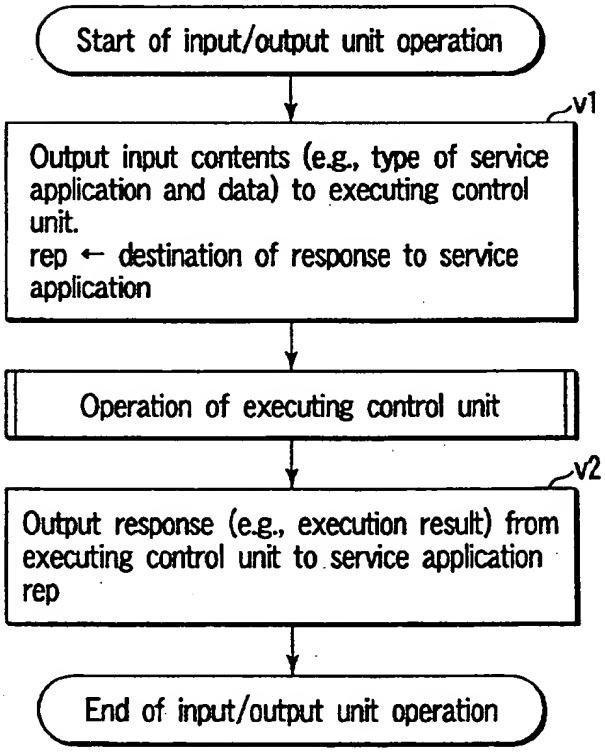
Start of input/output unit operation
v1
Output input contents (e.g., type of service application and data) to executing control unit.
rep ← destination of response to service application
Operation of executing control unit
v2
Output response (e.g., execution result) from executing control unit to service application
rep
End of input/output unit operation

FIG. 5